

**Appendix Table 1.** Sample characteristics and covariate balance in matched and unmatched samples

	Bloodstream infection				Urinary Tract infection			
	Unmatched (N = 138,024)		Matched (N = 2,491)		Unmatched (N = 138,024)		Matched (N = 5,817 )	
	mean inf. <sup>a</sup>	diff. <sup>b</sup>	mean inf. <sup>a</sup>	diff. <sup>b</sup>	mean inf. <sup>a</sup>	diff. <sup>b</sup>	mean inf. <sup>a</sup>	diff. <sup>b</sup>
Age	62.93	11.64***	61.69	0.40	67.68	17.19***	66.82	-1.57***
Biopsy	0.05	0.03***	0.07	0.00	0.03	0.01***	0.04	0.00
Blood disease	0.30	0.19***	0.36	-0.08***	0.19	0.08***	0.22	-0.01
Burn(s)	0.01	0.00	0.01	0.00	0.00	-0.00***	0.00	0.00
Central venous line	0.36	0.24***	0.47	0.04	0.22	0.11***	0.37	0.05***
Charlson index	3.20	1.47***	3.41	-0.14	2.75	1.05***	3.02	-0.11
Chronic dermatitis	0.13	0.08***	0.11	0.00	0.07	0.02***	0.07	0.00
Circulatory system disease	0.66	0.23***	0.70	-0.03	0.66	0.24***	0.70	0.00
Complications of pregnancy or childbirth	0.01	-0.11***	0.01	0.00*	0.02	-0.10***	0.02	0.00
Congenital anomalies disease	0.02	-0.00**	0.02	0.00	0.02	-0.00***	0.02	0.00
Diabetes mellitus	0.32	0.11***	0.29	0.00	0.32	0.12***	0.30	-0.01
Dialysis	0.10	0.07***	0.10	0.00	0.03	0.00**	0.04	0.00
Digestive system disease	0.48	0.19***	0.52	-0.06**	0.43	0.15***	0.45	-0.02
Endocrine or immunity disorder	0.55	0.20***	0.55	-0.04	0.53	0.18***	0.52	0.00
Female	0.44	-0.13***	0.44	-0.01	0.65	0.10***	0.63	-0.04***
General anesthesia	0.20	0.00	0.31	0.00	0.19	0.00	0.35	0.03**
Genitourinary system disease	0.26	0.12***	0.24	-0.03	0.34	0.19***	0.29	-0.04***
High risk medications administered	0.43	0.21***	0.54	0.02	0.33	0.11***	0.41	0.03*
Hospital 2	0.40	-0.08***	0.39	0.01	0.37	-0.10***	0.33	0.00
Hospital 3	0.10	-0.05***	0.06	0.01	0.15	0.01	0.09	0.00
Ill-defined condition(s) influencing health status	0.44	0.23***	0.46	-0.02	0.33	0.13***	0.35	0.01
Infectious or parasitic disease	0.55	0.38***	0.53	-0.10***	0.30	0.13***	0.26	0.03**
Injury and poisoning disease	0.63	0.42***	0.69	-0.05**	0.43	0.22***	0.46	0.02
Intensive care unit stay	0.40	0.22***	0.55	0.10***	0.26	0.08***	0.41	0.07***

	Bloodstream infection				Urinary Tract infection			
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	mean inf. <sup>a</sup>	diff. <sup>b</sup>	mean inf. <sup>a</sup>	diff. <sup>b</sup>	mean inf. <sup>a</sup>	diff. <sup>b</sup>	mean inf. <sup>a</sup>	diff. <sup>b</sup>
Intubation	0.16	0.14***	0.23	0.03	0.08	0.05***	0.13	0.03***
Major (>30min) OR procedure	0.19	-0.03***	0.30	-0.01	0.20	-0.02***	0.36	0.02
Malignancy	0.27	0.14***	0.32	-0.06**	0.17	0.04***	0.21	-0.01
Mechanical ventilation	0.20	0.17***	0.28	0.02	0.10	0.07***	0.16	0.04***
Mental illness	0.32	0.04***	0.32	-0.04	0.32	0.04***	0.32	0.02
Musculoskeletal/connective tissue disease	0.25	0.06***	0.23	-0.03	0.27	0.09***	0.26	-0.01
Neoplasm	0.27	0.14***	0.33	-0.06**	0.18	0.05***	0.20	0.00
Nervous system/sense organs disease	0.30	0.03***	0.36	0.00	0.30	0.03***	0.33	-0.02
Operating room procedure	0.24	0.00	0.35	0.00	0.24	-0.01	0.40	0.02
Perinatal period disease(s)	0.01	-0.08***	0.00	0.00	0.00	-0.09***	0.00	0.00
Prior hospitalization	0.68	0.19***	0.62	-0.04*	0.67	0.18***	0.59	-0.02
Renal failure	0.54	0.34***	0.56	-0.03	0.41	0.22***	0.41	0.02
Respiratory system disease	0.35	0.19***	0.39	-0.01	0.24	0.08***	0.26	0.04***
Skilled nursing facility stay	0.07	0.04***	0.04	-0.01	0.07	0.05***	0.06	0.00
Skin and subcutaneous tissue disease	0.15	0.11***	0.13	-0.02	0.11	0.07***	0.10	0.01
Substance abuse	0.06	0.01	0.05	-0.03	0.03	-0.02***	0.04	0.00
Transplant	0.01	0.00	0.02	0.00	0.01	0.00	0.02	0.00
Transplant history	0.06	0.03***	0.05	0.01	0.04	0.02***	0.04	0.00
Trauma	0.00	-0.00***	0.00	0.00	0.00	0.00	0.00	0.00
Urinary catheter	0.51	0.16***	0.62	0.07***	0.52	0.18***	0.69	0.06***
Vascular catheterization	0.08	0.00	0.13	0.02	0.10	0.01***	0.17	0.01
Wound(s)	0.00	0.00	0.01	0.00	0.01	0.00*	0.01	0.00

Also assessed for balance: Day of biopsy, Day of general anesthesia, day of major (>30min) OR procedure, Day of OR procedure, Days in intensive care unit, Days on central venous line, Days on high risk medication, Days with Urinary Catheter and unclassified diagnosis.

<sup>a</sup> All variables in percent except age and Charlson; <sup>b</sup> ‘diff.’ is the difference between the infected and uninfected; \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

**Appendix Table 2.** Incremental charges, costs, payment, and length of stay for patients with urinary tract and bloodstream infections and share of excess cost recovered by hospital compared to propensity-score matched controls<sup>a</sup>

	Bloodstream Infection	Urinary Tract Infection
	Controls (Adjusted)	Controls (Adjusted)
Total Charge	47,325	19,054
[SD]	[7,399]	[2,585]
	<i>P &lt; .01</i>	<i>P &lt; .01</i>
Costs <sup>b</sup>	15,367	6,238
Payment <sup>c</sup>	7,895	1,901
[SD]	[1,881]	[754]
	<i>P &lt; .01</i>	<i>P &lt; .05</i>
Share of excess costs recovered	51%	30%
Total Length of stay	3.67	1.97
[SD]	[0.59]	[0.26]
	<i>P &lt; .01</i>	<i>P &lt; .01</i>
N	2,447	5,705

<sup>a</sup> See Appendix Table 1 for discussion of propensity score matching methodology.

<sup>b</sup> Hospital costs converted from charges using hospital system's Medicare cost-to-charge ratio.

<sup>c</sup> Payment calculated as Medicaid payment (including outliers) for Medicaid patients and Medicare payment (including outliers) for all other patients.

Note: Robust standard errors in brackets. Charges, payments and costs presented in USD. Excludes self-pay patients. Regressions include all controls in Appendix Table 1.